



phase austenite stefan mobile alloy element

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The phases comprise **austenite** and another **phase**, generally, ferrite or cementite, ... the **mobile alloy element**, which are located on either side of the **phase** ... Ferner wird durch Lösen eines **Stefan-Problems** ermittelt, ob und wie sich ...

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transition temperature, the **austenite** (parent) **phase** may coexist with ... interface to be more **mobile** in the regime where twin-branching is preferred [2] J. W. Christian, The Theory of Transformations in Metals and **Alloys** (Pergamon ...

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K' of the **mobile alloy element** changes in the austenitic zone of the volume element 9 ... For each of the **phase** boundaries 11 and 12 a **Stefan** problem is now ...

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solve a vector-valued **Stefan** problem with a finite size of **austenite** cell. alloying **element**, we have within the **austenite phase** ...

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and in the **austenite phase** at conventional hardening temperatures, respectively ... **austenite** due to their possibly different alloying **element** contents. and Dr. **Stefan** Zaefferer of the Max Planck Institut für Eisenforschung, ...

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steel - alloy steels, ferrite, austenite, cementite, Pearlite

alloy steels, ferrite, **austenite**, cementite, Pearlite ... small quantities of other **elements** (alloy steels), such as manganese, silicon, chromium, molybdenum, and nickel. ... Phase diagram for steel. **Stefan's law** (**Stefan**-Boltzmann law) ...

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some recent comparison studies of **phase**-field with a **Stefan** problem, for each alloying **element**. The concentration of **element** *i* in the particle transformation in ternary systems and application to the ferrite-**austenite** ...

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alloys, as a result of surface treatments with high-energy sources. ... carbon represents the one-dimensional **Stefan** problem with two moving boundaries: ... reduces to the case with one **mobile austenite** ^ excess **phase** ...

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Douglas, J., A uniqueness theorem for the solution of a **Stefan** problem. ... The dissolution of a stoichiometric second **phase** in ternary **alloys**: a numerical analysis. ... to the ferrite-**austenite** transformation in the Fe-Cr-Ni-system. ...

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